

C l a i m s:

1. A mounting plate (10) for electronic components (12), in particular with cooling conduits (16, 18) integrated in a plate body (14) for a cooling medium to flow through, wherein a fastening arrangement for mounting the electronic components is arranged on the plate body (14),

characterized in that

the fastening arrangement has at least one holding element (25, 26) with a fastening screw thread (25.3, 26.5) and at least one first groove (20) or rib, which is embodied to be undercut, extends in a straight line in the extension direction (A) of the mounting plate (10), and into which the at least one holding element (25, 26) can be inserted for fixing the component (12) in place.

2. The mounting plate in accordance with claim 1,

characterized in that

the fastening arrangement has at least one second groove (22) or rib, which is embodied in the same way as the first groove (20) or rib and extends parallel in respect to the first groove (20) or rib, whose distance (B) from the first groove (20) or rib is substantially determined by the length of extension (B) of the electronic component (12) to be mounted, which runs perpendicularly in respect to the first or second groove (20, 22) or rib.

3. The mounting plate in accordance with claim 2,

characterized in that

the fastening arrangement has at least one further

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groove (24) or rib extending parallel with the second groove (22) or rib, which is embodied in the same way as the first groove or rib (20) and the second groove (22) or rib, which extends along the side (26) of the second groove or rib facing away from the electronic component to be mounted at a distance (C) from it, which is less than the distance (B) between the first groove (20) or rib and the second groove (22) or rib.

4. The mounting plate in accordance with one of the preceding claims,

characterized in that

electronic components (12), which have screw holes, can be fastened by means of screws (28, 34) directly on the holding elements (25, 26) inserted into the grooves (20, 22, 24) or ribs, or can be fixed in place by means of strip-like holding elements (27, 28), which are attached indirectly or directly to the holding elements (25, 26).

5. The mounting plate in accordance with one of the preceding claims,

characterized in that

the fastening arrangement comprises at least one angled sheet metal piece (30), and

electronic components (12) to be mounted, which have holes whose spacing between each other is less than the distance (B) between the second groove (22) and the first groove (20), or less than the distance of the still further groove (24) from the first groove (20), can be clampingly fixed in place at least on one side by an angled sheet metal piece (30) by means of at least one screw (32) engaging it at

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the holding element inserted into the corresponding groove (22).

6. The mounting plate in accordance with claim 5,
characterized in that

the angled sheet metal piece (30) has a flat base plate (34) for placement against the mounting plate (10), and a clamping area (36), which is angled in respect to it, for the clamping fixation of the electronic component (12) to be mounted.

- 7. The mounting plate in accordance with claim 6,
characterized in that

the angled sheet metal piece (30) has at least one elongated hole (38), which extends perpendicularly (D) in respect to the direction (A) of extension of the second groove (22) or the still further groove (24), for receiving the screw (32).

8. The mounting plate in accordance with one of the preceding claims,

characterized in that

the holding element can be a spring nut.

9. The mounting plate in accordance with one of the preceding claims,

characterized in that

the first groove (20), the second groove (22) and/or the still further groove (24) are embodied in one piece with the plate body.

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10. The mounting plate in accordance with one of the preceding claims,

characterized in that

at least one holding element is embodied as a groove insert (26), which has a base part (26.1), which can be inserted into one of the grooves (20, 22, 24), and a top part (26.2) protruding from the groove (20, 22, 24),

in the inserted state of the groove insert (26), the top part (26.2) has a fastening section (26.4) spaced apart from the mounting level of the mounting plate (10), which can be positioned above a base part (12.1), to be located under it, of the component (12) to be fixed in place, wherein the distance of the fastening section (26.4) is greater than the thickness of the base part (12.1) in the direction of the normal line in respect to the mounting level, and that at least one threaded bore (26.5) is provided in the fastening section (26.4), into which an attachment screw (34), which works together with the base part (12.1), can be screwed for fixing the component (12) in place.

11. The mounting plate in accordance with one of the preceding claims,

characterized in that

at least one holding element is made as a sliding block (25) with a base part (25.1), which can be pushed into one of the grooves (20, 22, 24), and a top part (25.2) protruding from the groove (20, 22, 24), and a threaded bore (25.3) is arranged in the top part (25.2) in the direction of the normal line in respect to the mounting level, on which a holding means for the component (12) can be screwed in place.

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12. The mounting plate in accordance with claim 10 or 11,

characterized in that

the fastening arrangement has at least one holding strip (27), which can be arranged transversely in respect to the grooves (20, 22, 24) and is dimensioned in such a way that it spans the distance between two grooves (20, 22; 20, 24) and can be fixed in place by means of threaded bores (25.3, 26.3) in its end sections on both sides in the sliding blocks (25) and/or groove inserts (26) pushed into the respective grooves (20, 22, 24).

13. The mounting plate in accordance with claim 12, characterized in that

at least one strip-like bridge (28) is provided, which can be displaceably inserted at a distance from the mounting level between two holding strips (27), which are arranged on both sides of a component (12) parallel in respect to each other, and has bores (28.1), by means of which the component (12) can be fixed in place at its base (12.1) by means of at least one attachment screw.

14. The mounting plate in accordance with claim 13, characterized in that

the bridge (28) has open slits (28.2) in both its end sections in the direction toward the holding strips (27), by means of which it is displaceably held on the holding strips (27).

15. The mounting plate in accordance with one of claims 10 to 14,

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characterized in that
the at least one holding strip (27) and/or bridge (28)
is provided with a row of threaded bores (27.1, 28.1) or
fastening holes.

16. The mounting plate in accordance with one of
claims 10 to 15,

characterized in that
the holding strip (27) and/or the bridge (28) is
designed in an angular shape in cross section, or is provided
with at least one reinforcement rib.